http://www-fars.nhtsa.dot.gov

FARS QUERY SYSTEM WORKBOOK:

QUERY FARS DATA EXERCISE

QUERY FARS DATA

Connect to Query FARS Data:

1. To connect to **Query FARS Data** from the **FARS Home Page**:
- ☛ Click once on the hyperlink title **"Query FARS Data"**.

Figure 1: FARS Home Page Link to Query FARS Data.

2. At the **Query FARS Data** main page, choose the year you want to query:
- ☛ Click once on **'1996'**.
- ☛ Then click once on **'Submit'.**

Note: At this time, only years 1994,1995,1996, and 1997 can be queried.

Figure 2: Click once on '1996', then click on 'Submit'.

Select Interested Fields Page:

2. This brings up the **Select Interested Fields Page**.
The data fields on this page create your query.

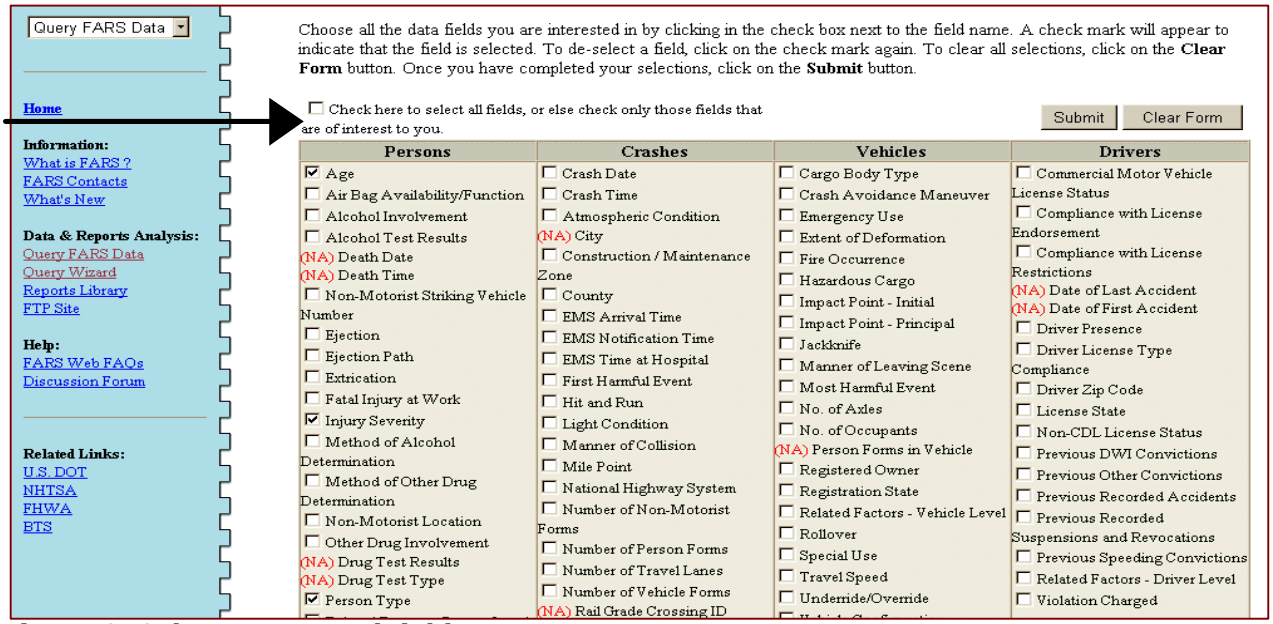


Figure 3: Select Interested Fields Page.

3. The **Select Interested Fields Page** is divided into 4 categories:

Persons
Crashes
Vehicles
Drivers

Under each category are fields of corresponding variables.

4. Options are to either choose specific variables for your query, or **'Select all Fields'** (See Figure 3, above).

Choose Variables to Query:

5. Choose variables from the categories (See Figure 3, above):

☛ Under **'Persons'** click once on the following boxes:

-**'Age'**
-**'Injury Severity'**
-**'Person Type'**

6. To change a field choice:

☛ Click once on the box you previously checked (this deletes the check mark) or

☛ Press **'Clear Form'** in the lower right corner of the page to erase all choices.

Choose new variables.

7. Submit field choices:

☛ Click once on **'Submit'**.

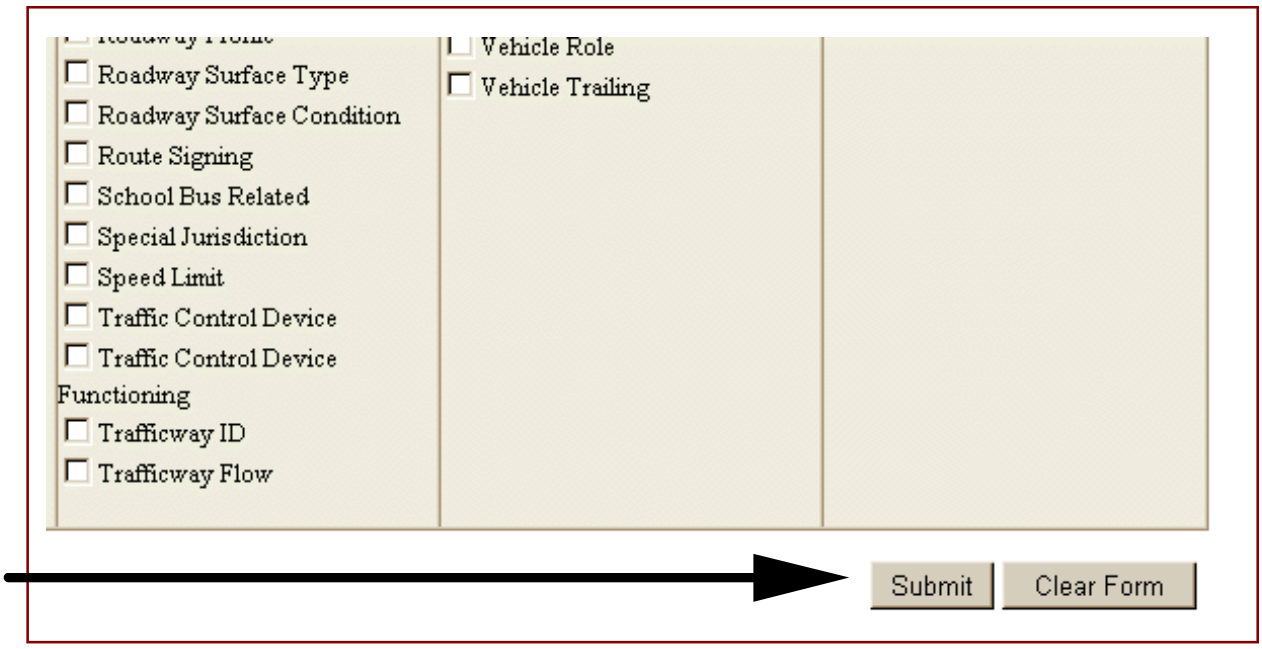


Figure 4: Click once on 'Submit'.

Alcohol Data Warning Message:

8. If your field choice is alcohol related (for example: **'Alcohol Test Results'**), a message-
"Use Alcohol Test Results Data with Caution!" appears (See Figure 5, page 5). Read through the message, then

☛ Click once on **OK**.

Note: If you have any questions in regard to the message - contact information, includ- direct link to an E-mail contact, is located at the bottom of the message.

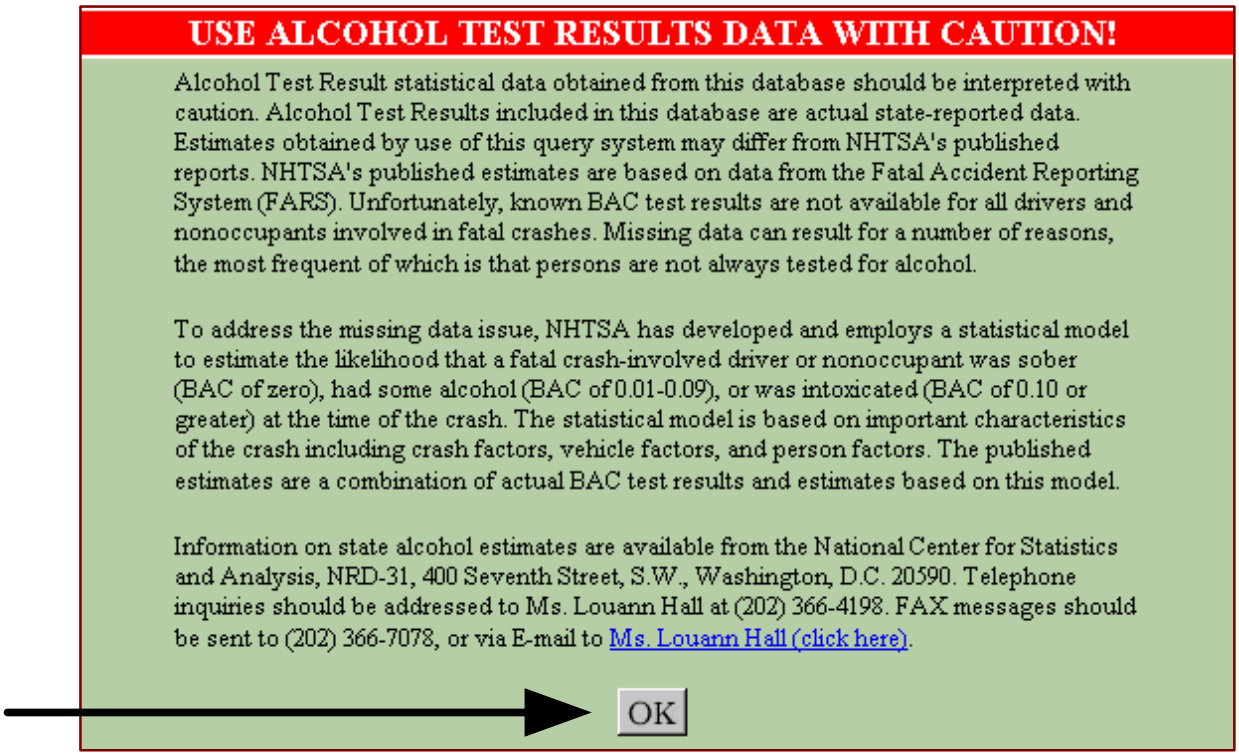


Figure 5: "Use Alcohol Test Results Data with Caution" message.

Specify the Data to be Queried:

9. The **Select Criteria Page** specifies the records for your report.

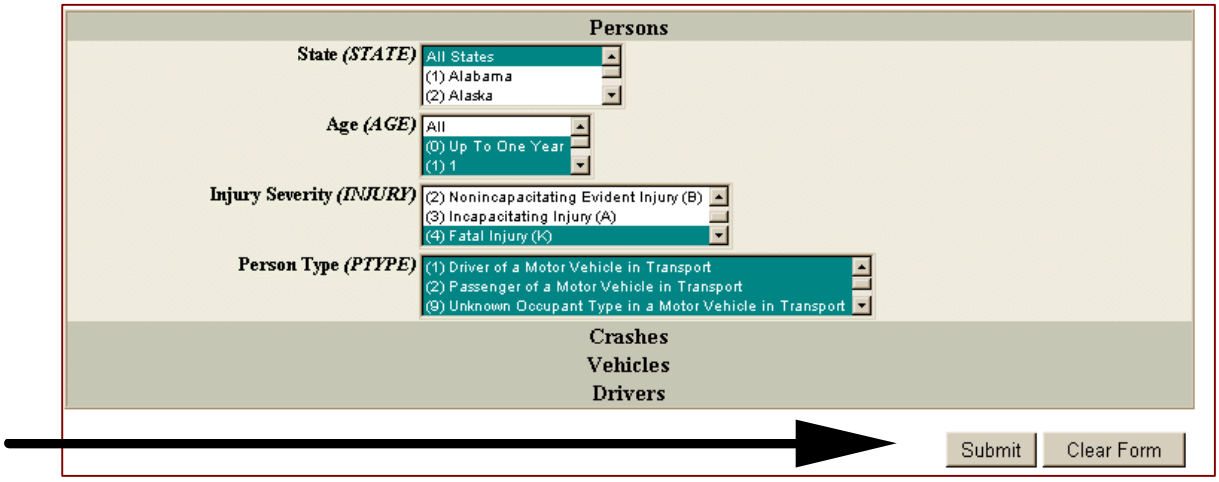


Figure 6: Select criteria for your report: Click once on 'Submit'.

Note:Before selecting fields, keep in mind:

-Selecting **'All States'** will increase the search time.

-To choose multiple values for a selected field, hold down the **<CTRL>** key, and then click on the variables you wish to select.

- Choosing two or more variables is the equivalent of an **'And'** statement, so records must meet your selection criteria for both variables to be included in your report.

10. Choose the fields (See Figure 6, page 5):

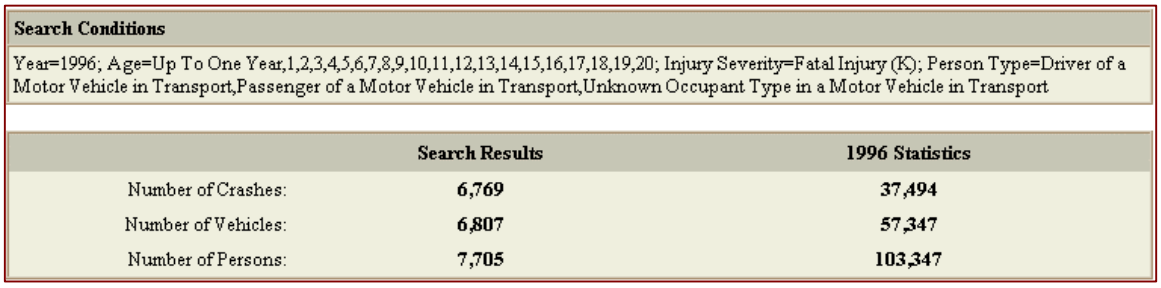
- ☛ Under **State**: Click once on **'All States'.**
- ☛ Under **Age** : Click on **'(0) UpTo One Year'** through age **'(20)20'.**
- ☛ Under **Injury Severity**: Click once on **'(4) Fatal Injury'**.
- ☛ Under **Person Type**: Click on **'(1) Driver of a Motor Vehicle in Transport'**, **'(2) Passenger of a Motor Vehicle'**, and **'(9) Unknown Occupant Type in a MotorVehicle in Transport'**.

11. Submit your field choices:

- ☛ Click once on **'Submit'** (See Figure 6, page 5).

Search Results Page:

12. This **Search Results Page** contains the results from your query in addition to general statistics of the year chosen.



Search Conditions

Year=1996; Age=Up To One Year,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20; Injury Severity=Fatal Injury (K); Person Type=Driver of a Motor Vehicle in Transport,Passenger of a Motor Vehicle in Transport,Unknown Occupant Type in a Motor Vehicle in Transport

	Search Results	1996 Statistics
Number of Crashes:	6,769	37,494
Number of Vehicles:	6,807	57,347
Number of Persons:	7,705	103,347

Figure 7: Search results in table format and 1996 statistics.

13. At the bottom of the page are four option buttons:
The first three buttons create statistical reports from your query.
The fourth option downloads the raw data resulting from the query.

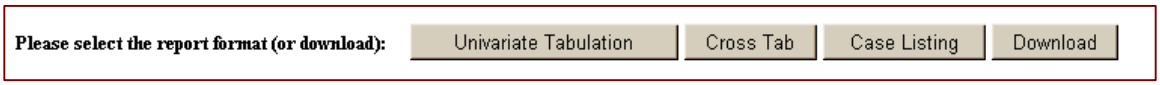


Figure8: Report formats option buttons.

14. The **Legend** provides explanations of each particular option.

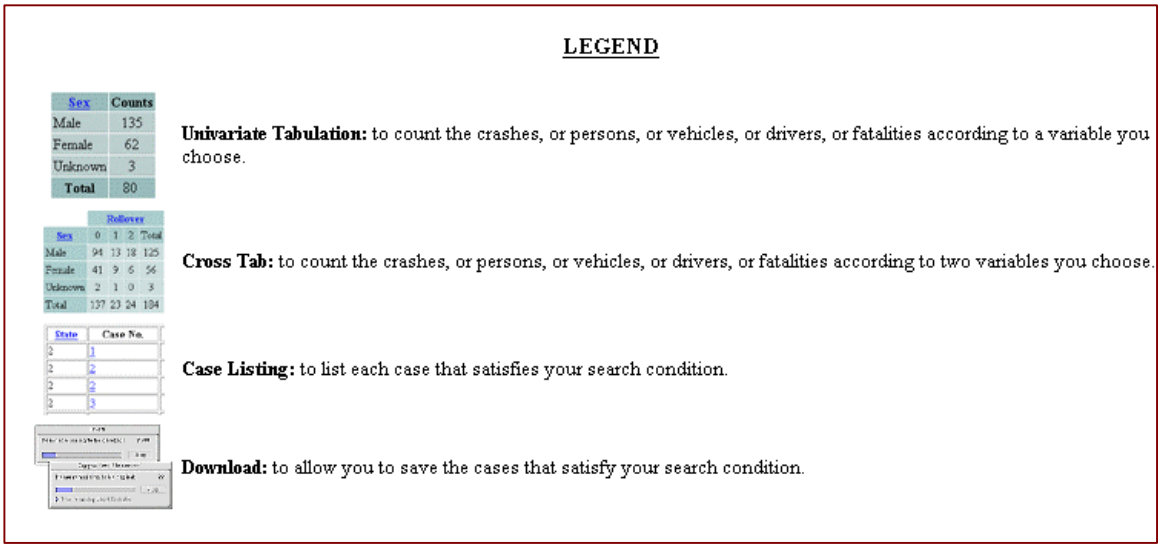


Figure 9: Legend for queried data formats options.

Univariate Tabulation:

15. To access data through **Univariate Tabulation**:
☛ Click once on **'Univariate Tabulation'**.
Select the variable to use:
☛ Click once on **'Age'**.
Select data to count:
☛ Click once on **'Number of Persons'**.

16. Decide whether or not to display zero values on report.

☛ Click on **'No'**.

☛ Click on **'Submit'**.

Note: Display values do not alter the data, only the format of the table.

Group Selection within Univariate Tabulation:

17. Group Selection appears with three options:

- **No Grouping**: No grouping imposed on data.
- **Injured Age Group**: Age groupings for injured.
- **Driver Age Group**: Age groupings for drivers.

Note: These grouping options follow NHTSA grouping practices.

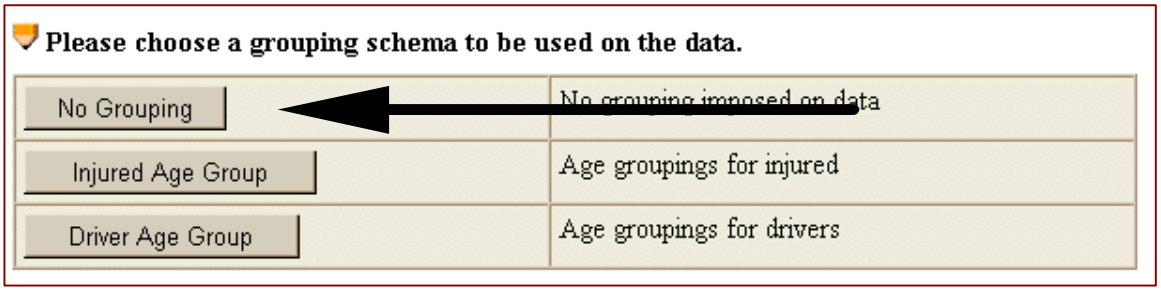


Figure 10: Choose a grouping schema.

18. The data is grouped according to the ***schema*** (the graphical depiction of the data base structure) chosen.
The group definitions are also displayed in table format for review.

Group Definition

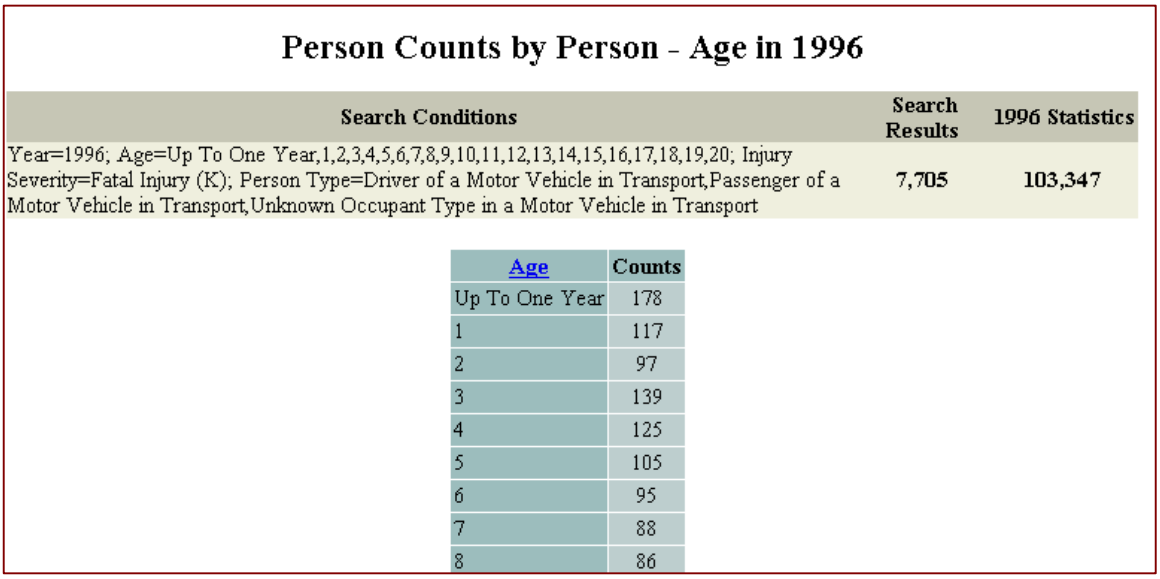
No Grouping	Injured Age Group	Driver Age Group
Up To One Year	< 5	< 16
1	5 - 9	16 - 20
2	10 - 15	21 - 24
3	16 - 20	25 - 34
4	21 - 24	35 - 44
5	25 - 34	45 - 54
6	35 - 44	55 - 64
7	45 - 54	65 - 69
8	55 - 64	> 69
9	65 - 74	Unknown
10	75 - 98	
11	Unknown	

Figure 11: Group Definition Table.

19. Choose the **No Grouping** schema (See Figure 10, above):

☛ Click once on **'No Grouping'**.

20. The information is displayed in table format without grouping options.



Person Counts by Person - Age in 1996

Search Conditions	Search Results	1996 Statistics
Year=1996; Age=Up To One Year,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20; Injury Severity=Fatal Injury (K); Person Type=Driver of a Motor Vehicle in Transport,Passenger of a Motor Vehicle in Transport,Unknown Occupant Type in a Motor Vehicle in Transport	7,705	103,347

Age	Counts
Up To One Year	178
1	117
2	97
3	139
4	125
5	105
6	95
7	88
8	86

Figure 12: Person Counts by Person-Age in 1996 with No Grouping Option.

21. Return to the data selection page.

☛ Click the **'Back'** button (located on the **Web Browser Toolbar**) until you reach the **'Select Data to Count'** page.

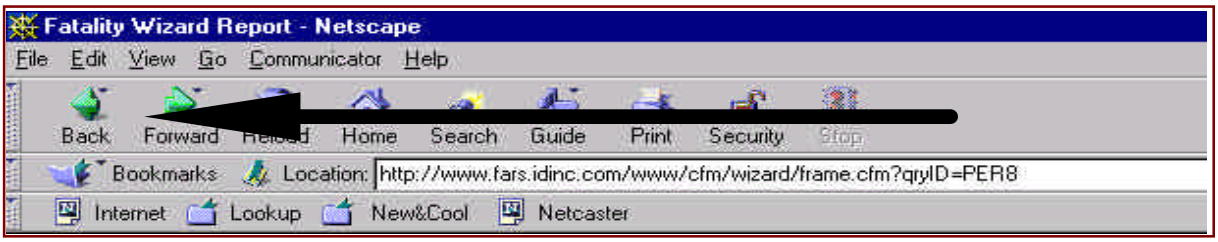


Figure 13: 'Back' button on Web Browser Toolbar.

22. Select new data:

☛ Under **'Select Data to Count'**, click once on **'Number of Crashes'**.

☛ Click once on **'Submit'**.

23. Change the grouping schema:

☛ Click once on **'Injured Age Group'** (See Figure 10, page 8).

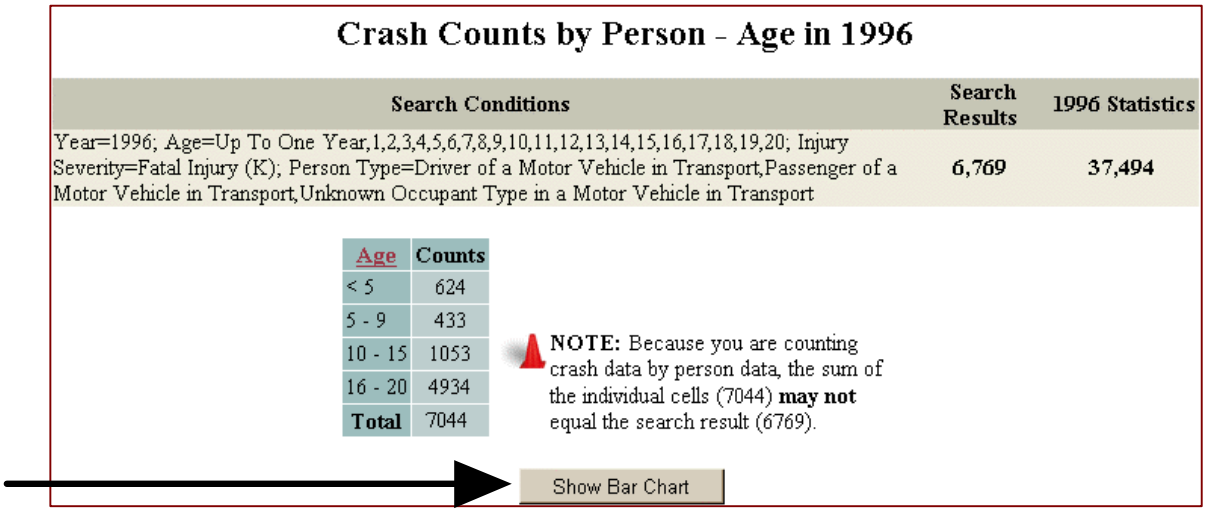


Figure 14: Vehicle Counts by Person - Age 1996; Hyperlink to Age Coding Manual.

24. At the bottom of the table is a **'Note'** (See Figure 14, above) which explains:
If choosing variables combines tables (ex: **Vehicle Data** x **Person Data**) the data in the queried table may not equal its own total.
For example, one crash may have 2 people in two separate age groups, but the total will only reflect one crash.
For greater accuracy, choose variables within the same arena (ex: **Vehicle Data** x **Vehicle Data**).

Coding Manual:

25. To review the **Age** grouping definitions:
☛ Click once on the link **"Age"**.
The **Coding Manual** for **Age** appears.
To return to queried data table:
☛ Click once on the **'Back'** button located in the **Web Browser Toolbar** (See Figure 13, page 9).

26. To view the queried data in bar chart format:
☛ Click once on **Show Bar Chart** (See Figure 14, above).

Note: The format of the chart does not alter the data.

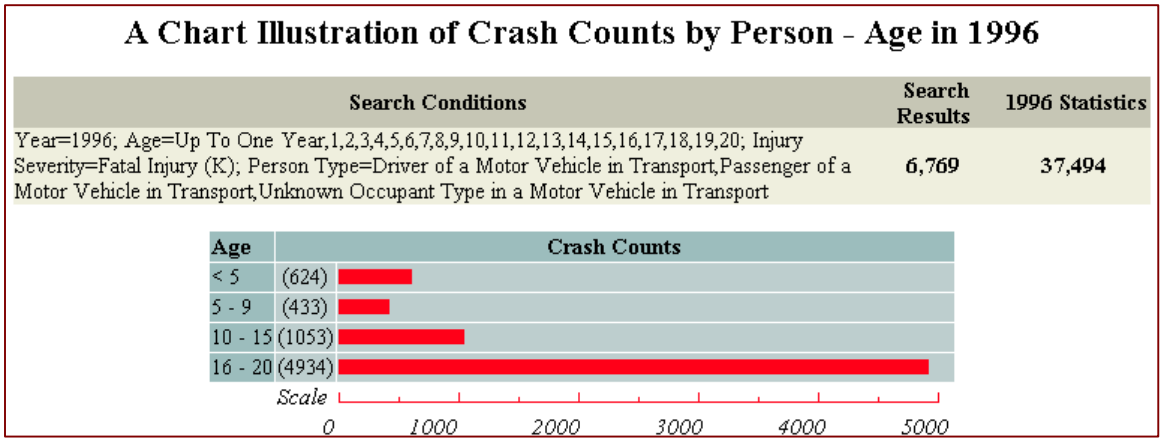


Figure 15: Bar Chart Format of queried data.

Cross Tab Format

27. To view the queried data in **CrossTab** form:

- ☛ Click on the **'Back'** button in the **Web Browser Toolbar** (See Figure 13, page 9) until you reach the **Search Results Page**.
- ☛ Click once on **'Cross Tab'**.

28. Similar to **Univariate** reports, **Cross Tab** is a further breakdown of counts by a second variable.

29. Choose variables:

Select a variable for the **Report Row**:

- ☛ Click once on **'Person Type'**.

Select a variable for the **Report Column**:

- ☛ Click once on **'Age'**.
- ☛ Click once on **'Submit'**.

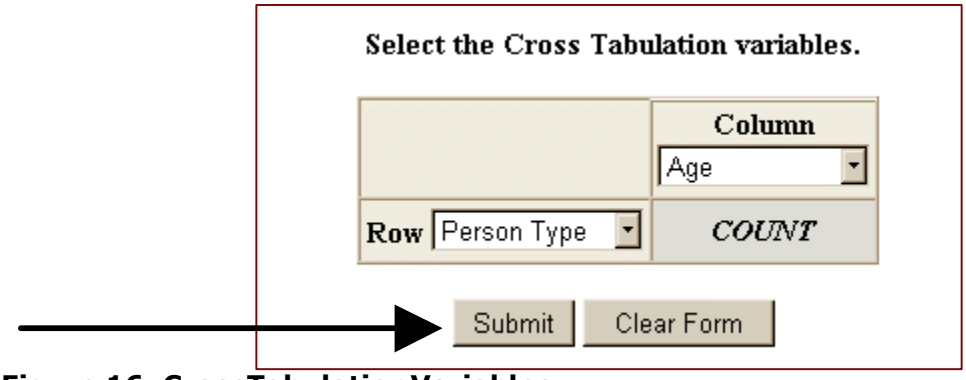


Figure 16: CrossTabulationVariables.

31. Select Data to count:

☛ Click once on **'Number of Persons'**.

Select whether or not to display zero values:

☛ Click once on **'No'**.

☛ Click once on **'Submit'**.

Note: Display values do not alter the data, only the format of the table.
Also, for our particular variables, grouping options are not applicable.

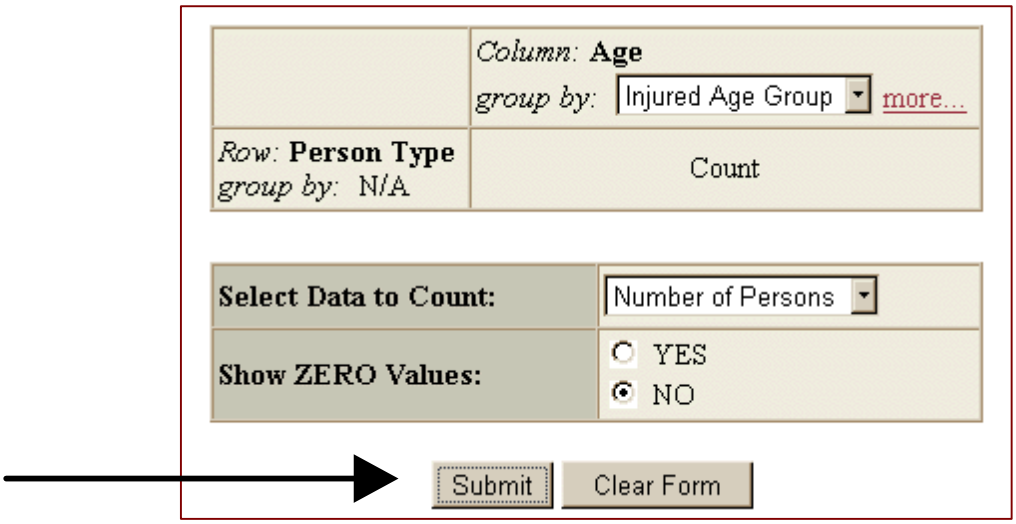


Figure 17: Select Data to Count.

Person Counts by Person Type and Age in 1996

Search Conditions	Search Results	1996 Statistics
Year=1996; Age=Up To One Year,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20; Injury Severity=Fatal Injury (K); Person Type=Driver of a Motor Vehicle in Transport,Passenger of a Motor Vehicle in Transport,Unknown Occupant Type in a Motor Vehicle in Transport	7,705	103,347

	Injured Age Group				
Person Type	< 5	5 - 9	10 - 15	16 - 20	Total
Driver of a Motor Vehicle in Transport	1	7	211	3279	3498
Passenger of a Motor Vehicle in Transport	655	446	941	2137	4179
Unknown Occupant Type in a Motor Vehicle in Transport	0	1	4	23	28
Total	656	454	1156	5439	7,705

Figure 18: Person Counts by Person Type and Age in 1996: Hyperlinks to Person Type and Injured Age Group Coding Manuals.

Coding Manual:

32. To reveal a coding manual for each variable:

☛ Click once on either **"Person Type"** or **"Injured Age Group"**.

To return to the query table:

☛ Click once on the **'Back'** button located in the **Web Browser Toolbar** (See Figure 13, page 9).

Case Listing:

33. To query data using **Case Listing**:

☛ Click on the **'Back'** button on the **Web Browser Toolbar** (See Figure 13, page 9) until you reach the **Search Results Page** (See Figure 9, page 7).

☛ Click once on **'Case Listing'** (See Figure 10, page 8).

Obs.	State	Case [redacted]	Vehicle Number	Person Number	Age	Person Type	Injury Severity
1	1	3	1	1	20	1	4
2	1	16	2	2	0	2	4
3	1	18	1	1	17	1	4
4	1	20	1	1	17	1	4
5	1	21	1	2	15	2	4
6	1	24	1	2	16	2	4
7	1	25	1	1	18	1	4
8	1	28	1	1	19	1	4
9	1	31	1	2	18	2	4
10	1	37	2	3	0	2	4
11	1	39	2	2	4	2	4
12	1	41	1	2	18	2	4
13	1	42	1	1	20	1	4

Figure 19: Data query results in Case Listing Table.

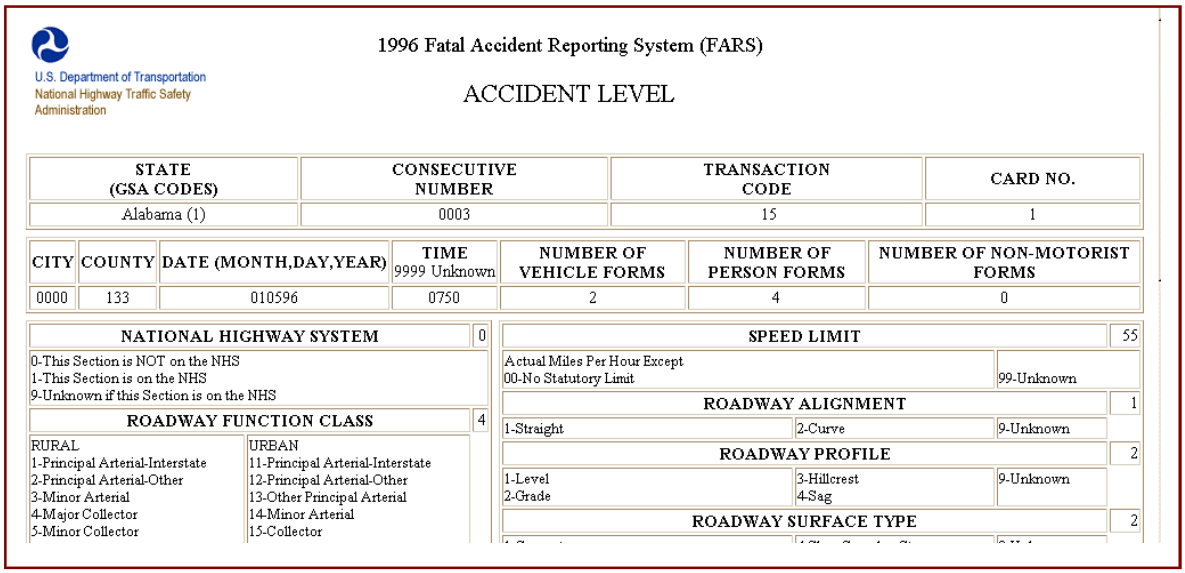
34. The table lists all cases initially by state, then by that state's case number.

☛ Click once on **"State"** to reveal a list of state codes.

☛ Click once on **'Back'** in the **Web Browser Toolbar** (See Figure 13, page 9) to return to the **Case Listing Table**.

35. Clicking on a **'Case No.'** reveals that case accident form.

☛ Click once on the number **"3"** in the first row of the **Case No.** column (See Figure 19, page 13)



1996 Fatal Accident Reporting System (FARS)

U.S. Department of Transportation
National Highway Traffic Safety Administration

ACCIDENT LEVEL

STATE (GSA CODES)	CONSECUTIVE NUMBER	TRANSACTION CODE	CARD NO.
Alabama (1)	0003	15	1

CITY	COUNTY	DATE (MONTH,DAY,YEAR)	TIME 9999 Unknown	NUMBER OF VEHICLE FORMS	NUMBER OF PERSON FORMS	NUMBER OF NON-MOTORIST FORMS
0000	133	010596	0750	2	4	0

NATIONAL HIGHWAY SYSTEM	0
0-This Section is NOT on the NHS 1-This Section is on the NHS 9-Unknown if this Section is on the NHS	

ROADWAY FUNCTION CLASS	4
RURAL 1-Principal Arterial-Interstate 2-Principal Arterial-Other 3-Minor Arterial 4-Major Collector 5-Minor Collector	URBAN 11-Principal Arterial-Interstate 12-Principal Arterial-Other 13-Other Principal Arterial 14-Minor Arterial 15-Collector

SPEED LIMIT	55
Actual Miles Per Hour Except 00-No Statutory Limit	99-Unknown

ROADWAY ALIGNMENT			1
1-Straight	2-Curve	9-Unknown	

ROADWAY PROFILE			2
1-Level 2-Grade	3-Hillcrest 4-Sag	9-Unknown	

ROADWAY SURFACE TYPE	2

Figure 20: Accident Level for Case No.3.

36. To return to the **Case Listing Table**:

☛ Click once on the **'Back'** button in the **Web Browser Toolbar** (See Figure 13, page 9).

37. Clicking on a **'Vehicle Number'** reveals that case's numbered vehicle form.

☛ Click once on the number **"1"** in the **Vehicle Number** column (See Figure 21, page 15).

Note: There may be more than one 'vehicle' form in a case.

Obs.	State	Case No.	Vehicle Number	Person Number	Age	Person Type	Injury Severity
1	1	3	1	1	20	1	4
2	1	16	2	2	0	2	4
3	1	18	1	1	17	1	4
4	1	20	1	1	17	1	4
5	1	21	1	2	15	2	4
6	1	24	1	2	16	2	4
7	1	25	1	1	18	1	4
8	1	28	1	1	19	1	4
9	1	31	1	2	18	2	4
10	1	37	2	3	0	2	4
11	1	39	2	2	4	2	4

Figure 21: Click once on the number "1" in the Vehicle Number column.

38. The **Vehicle Level Case Listing** appears.

U.S. Department of Transportation
National Highway Traffic Safety Administration

1996 Fatal Accident Reporting System (FARS)

VEHICLE LEVEL

STATE (GSA CODES)	CONSECUTIVE NUMBER	TRANSACTION CODE	CARD NO.	VEHICLE NUMBER
Alabama (1)	0003	25	1	1

NUMBER OF OCCUPANTS	1
Actual Value Except: 96-96 or more 97-Unknown-Only Injured Reported 99-Unknown	
VEHICLE MAKE	37
See Instruction Manual-Vehicle Make	
VEHICLE MODEL	31
See Instruction Manual-Vehicle Model	
BODY TYPE	4
See Instruction Manual-Body Type	
Model Year	86
Actual Value Except:	99-Unknown
VEHICLE IDENTIFICATION NO.	
	JHMAK5430GSD-----
Actual Value Except: 0-Fill if No VIN	9-Fill if Unknown
REGISTRATION STATE	92
GSA CODES Except:	95-U.S. Government Tags

CARGO BODY TYPE	0
0-Not Applicable,not a Medium/Heavy Truck/Bus 1-Van/Enclosed Box 2-Cargo Tank 3-Flatbed 4-Dump 5-Concrete Mixer 6-Auto Transporter	7-Garbage/Refuse 8-Bus 97-Med./Heavy Truck, Other Cargo Body Type 98-Med./Heavy Truck,Unknown Cargo Body Type 99-Unknown if Light or Med./Heavy Truck/Bus
SPECIAL USE	0
0-No Special Use 1-Taxi 2-Vehicle Used as School Bus 3-Vehicle Used as Other Bus 4-Military	5-Police 6-Ambulance 7-Firetruck 9-Unknown
EMERGENCY USE	0
0-No	1-Yes
IMPACT POINT-INITIAL	12
0-Non-Collision 1-12-Clock Points 13-Top	14-Undercarriage 99-Unknown
IMPACT POINT-PRINCIPAL	12

Figure 22: Vehicle Level Case Report.

☛ Click once on the **'Back'** button in the Web Browser Toolbar (See Figure 13, page 9).

40. Clicking on a **'Person Number'** reveals that case's numbered person form.

☛ Click once on the link **"1"** directly beneath **Person Number**.

Note: There may be more than one 'person form' in case.

Obs.	State	Case No.	Vehicle Number	Person Number	Age	Person Type	Injury Severity
1	1	2	1	1	20	1	4
2	1	16	2	2	0	2	4
3	1	18	1	1	17	1	4
4	1	20	1	1	17	1	4
5	1	21	1	2	15	2	4
6	1	24	1	2	16	2	4
7	1	25	1	1	18	1	4
8	1	28	1	1	19	1	4
9	1	31	1	2	18	2	4
10	1	37	2	3	0	2	4
11	1	39	2	2	4	2	4

Figure 23: Click once on the number "1" in the Person Number column.

41. The **Person Level Case Listing** appears.

U.S. Department of Transportation
National Highway Traffic Safety Administration

1996 Fatal Accident Reporting System (FARS)

PERSON LEVEL

STATE (GSA CODES)	CONSECUTIVE NUMBER	TRANSACTION CODE	CARD NO.	VEHICLE NUMBER	PERSON NUMBER
Pennsylvania (42)	0003	41	1	1	1

NON-MOTORIST STRIKING VEHICLE NUMBER	0
Assigned Vehicle Number Except: 99-Unknown	
AGE	26
Actual Age Except: 0-Up to One Year 97-Ninety-Seven Years or Older 99-Unknown	
SEX	2
1-Male 2-Female 9-Unknown	
PERSON TYPE	1
1-Driver of a Motor Vehicle in Transport 2-Passenger of a Motor Vehicle in Transport 3-Occupant of a Motor Vehicle Not in Transport 4-Occupant of a Non-Motor Vehicle Transport Device	

NON-MOTORIST LOCATION	0
0-Not Applicable(Vehicle Occupant) 99-Unknown **INTERSECTION** 1-In Crosswalk 2-In Roadway, Not in Crosswalk 3-In Roadway, Crosswalk Not Available 4-In Roadway, Crosswalk Availability Unknown 5-Not in Roadway 9-Unknown	**NON-INTERSECTION** 10-In Crosswalk 11-In Roadway, Not in Crosswalk 12-In Roadway, Crosswalk Not Available 13-In Roadway, Crosswalk Availability Unknown 14-In Parking Lane 15-On Road Shoulder 16-Bike Path 17-Outside Trafficway 18-Other, Not on Roadway 19-Unknown
POLICE REPORTED ALCOHOL INVOLVEMENT	0
0-No(Alcohol Not Involved) 1-Yes(Alcohol Involved)	8-Not Reported 9-Unknown(Police Reported)

Figure 24: Person Level Case Report.

42. Return to the **Case Listing Table**:

- ☛ Click once on the **'Back'** button in the Web Browser Toolbar (See Figure 13, page 9).

43. The remaining columns are - **"Age"**, **"Person Type"**, and **"Injury Severity"**. Each is a direct link to that column's **Coding Manual**.

Download:

44. To **Download** the queried data:

- ☛ Click on the**'Back'** button in the **Web Browser Toolbar** (See Figure 13, page 9) until you reach the **Search Results Page** (See Figure 7, page 6).
- ☛ Click once on **'Download'** (See Figure 7, page 6).

45. Follow the directions that pop-up on the screen. The directions will differ depending on your computer's capabilities.

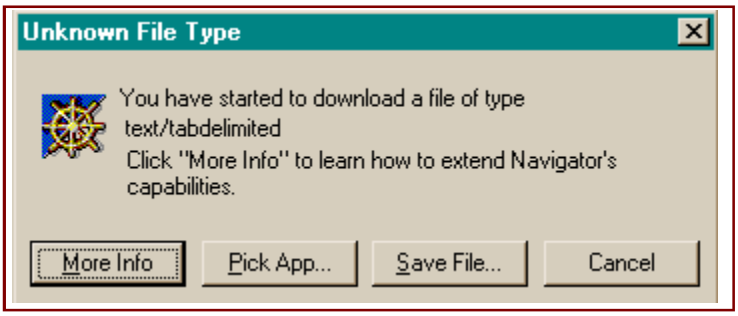


Figure 25:Netscape message regarding query download.

46. Our Query is complete.